IAPT Rec'd PCT/PTO 12 JUN 2006

FORM PTO 1390

US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

TRANSMITTAL LETTER TO THE UNITED STATES

DESIGNATED/ELECTED OFFICE (DO/EO/US)

CONCERNING A FILING UNDER 35 U.S.C. §371

ATTORNEY DOCKET NUMBER 2006_0286A

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)
10/570,133

International Application No. PCT/JP2004/012638

International Filing Date September 1, 2004

Priority Date Claimed September 1, 2003

Title of Invention

BETA-HYDROXY SHORT TO MEDIUM CHAIN FATTY ACID POLYMER

Applicant(s) For DO/EO/US

Kazunari USHIDA and Masaki KURIYAMA

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- 1. [] This is a FIRST submission of items concerning a filing under 35 U.S.C. §371.
- 2. [X] This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. §371.
- 3. [] This express request to begin national examination procedures (35 U.S.C. §371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. §371(b) and PCT Articles 22 and 39(1).
- 4. [] A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
- 5. [] A copy of the International Application as filed (35 U.S.C. §371(c)(2))
 - a. [] is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. [] has been transmitted by the International Bureau.
 - c. [] is not required, as the application was filed in the United States Receiving Office (RO/US)
- 6. [] A translation of the International Application into English (35 U.S.C. §371(c)(2)).
- 7. [] Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. §371(c)(3)).
 - a. [] are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. [] have been transmitted by the International Bureau.
 - c. [] have not been made; however, the time limit for making such amendments has NOT expired.
 - d. [] have not been made and will not be made.
- 8. [] A translation of the amendments to the claims under PCT Article 19.
- 9. [] An oath or declaration of the inventor(s) (35 U.S.C. §371(c)(4)).
- 10. [] A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. §371(c)(5)).

Items 11. to 14. below concern other document(s) or information included:

- 11. [X] An Information Disclosure Statement under 37 CFR 1.97 and 1.98. ATTACHMENT J
- 12. [] An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- 13. [] A FIRST preliminary amendment.
 - [] A SECOND or SUBSEQUENT preliminary amendment.
- 14. [] Other items or information:

U.S. APPLICATION NO. (FRANCE), 10/570,133	or 37 CFR 1.5)	INTERNATIONAL APPI PCT/JP2004/012638	LICATION NO.	ATTORNEY'S DOCKET NO. 2006_0286A			
15. [] The following fees are subn	nitted			CALCULATIONS PTO USE ONL			
Basic National Stage Fee							
ENTER APPROP	\$0						
Surcharge of \$130.00 for furnishin claimed priority date (37 CFR 1.4	\$						
Claims	Number Filed	Number Extra	Rate				
Total Claims	- 20 =		X \$50.00	\$			
Independent Claims	- 3 =		X \$200.00	\$			
Multiple dependent claim(s) (if ap	plicable)	· · · · · · · · · · · · · · · · · · ·	+ \$360.00	\$			
TOTAL O	F ABOVE CAL	CULATIONS =		\$0			
[] Small Entity Status is hereb	y asserted. Above fees	are reduced by 1/2.		\$			
	\$0						
Processing fee of \$130.00 for furniclaimed priority date (37 CFR 1.49	Processing fee of \$130.00 for furnishing the English translation later than [] 20 [] 30 months from the earliest claimed priority date (37 CFR 1.492(f)).						
Ţ	OTAL NATIO	NAL FEE =		\$			
Fee for recording the enclosed assi appropriate cover sheet (37 CFR 3.	\$						
T(OTAL FEES E	NCLOSED =		\$0			
				Amount to be refunded	s		
				Amount to be charged	s		
a. [] A check in the amount of \$ to cove b. [] Please charge my Deposit Account A duplicate copy of this sheet is en c. [X] The Commissioner is hereby auth overpayment to Deposit Account N	No. 23-0975 in the amoun closed. orized to charge any addition	t of \$ to cover the above	ve fees.				
NOTE: Where an appropriat must be filed and granted to re	e time limit under 3' estore the applicatio	7 CFR 1.494 or 1.495 has n to pending status.	not been met, a petitio	on to revive (37 CFR I	.137(a) or (b))		
19. CORRESPONDENCE ADDRESS By: Matthew M. Jacob Registration No. 25,154							

[CHECK NO._____]
[2006_0286A]

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Kazunari USHIDA et al. : Mail Stop: PCT

Serial No. 10/570,133 : Attorney Docket No. 2006 0286A

Filed March 1, 2006

BETA-HYDROXY SHORT TO MEDIUM CHAIN FATTY ACID POLYMER [Corresponding to PCT/JP2004/012638 Filed September 1, 2004]

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicants request consideration of the references listed on attached form PTO-1449 and any additional information identified below in paragraph 3. A legible copy of each reference listed on the Form PTO-1449 is enclosed, except a copy is not provided for:

	[X]	each U.S. Patent and U.S. Patent application publication;
	0	each reference previously cited in the international application PCT/; and/or
	0	each reference previously cited in prior parent application Serial No.
1a.	[X] This	s Information Disclosure Statement is submitted:
		aree months of the filing date (or of entry into the National Stage) of the ntitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. [] This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) [] the certification of paragraph 2 below is provided, or
- (2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.
- 1c. [] This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 2. It is hereby certified
 - a. [] that each item of information contained in this Information Disclosure

 Statement was first cited in any communication from a foreign patent office in a
 counterpart foreign application not more than three months prior to the filing of
 the Statement, or
 - b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.

3. []		ration of the following list of additional information (including any copending or led U.S. application, prior uses and/or sales, etc.) is requested.								
4.	For eac		rence listed on the attached form PTO-1449, reference							
	a. []	a full or partial English lan	guage translation submitted herewith,							
	b. []	a foreign patent office sear herewith,	ch report (in the English language) submitted							
	c. [X]	the concise explanation con at pages 1 to 27,	ntained in the specification of the present application							
		Reference DB (Brune et al.) is discussed on page 11 of the specification.							
	d. []	the concise explanation set	forth in the attached English language abstract,							
	e. []	the concise explanation set reference:	forth below or on a separate sheet attached to the							
5.	[] A fo	reign patent office search rep	ort citing one or more of the references is enclosed.							
			Respectfully submitted,							
			Kazunari USHIDA et al.							
	Fiz Ro AG G O		Matthew M. Jacob Registration No. 25,154 Attorney for Applicants							
MJ/kes	S									

MJ/kes Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 June 12, 2006

Sheet 1 of 5			INFORMA	TION DISCLOSURE STATEMEN	NT					
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE				ATTY DOCKET NO. 2006_0286A						
PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S)			APPLICANT Kazunari USHIDA et al							
	(Use seve	eral sheets if necessary) ed to PTO: June 12, 200		FILING DATE March 1, 2006		GROUP				
		- · · · · · · · · · · · · · · · · · · ·	FORE	EIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	COUNTRY CLASS SUBCLASS TRANSI						
	AA	92/09211	06/1992	wo						
	АВ	99/34687	07/1999	WO						
	AC	83/00435	02/1983	WO						
		OTHER	DOCUMENT(S) (/	Including Author, Title, Date, Pert	inent Pages, Etc	c.)				
	AD	D Cook, S. et al., <i>Aliment. Pharmacol. Ther.</i> , Vol. 12, pp. 499 to 507 (1998).								
	AE	Hara, H., Bioscience Microflora, Vol. 21, No. 1, pp. 35 to 42 (2002).								
	AF	Andoh, A. et al., Current Pharmaceutical Design, Vol. 9, pp. 347 to 358 (2003).								
	AG	Harig, J. et al., The New England Journal of Medicine, Vol. 320, No. 1, pp. 23 to 28 (1989).								
	АН	Head, K. et al., <i>Alter</i>	Head, K. et al., <i>Altemative Medicine Review</i> , Vol. 8, No. 3, pp. 247 to 283 (2003).							
	AI	Goh, J. et al., Alime	Goh, J. et al., Aliment. Pharmacol. Ther., Vol. 17, pp. 307 to 320 (2003).							
	AJ	Hong, J. et al., <i>Alime</i>	Hong, J. et al., Aliment. Pharmacol. Ther., Vol. 15, pp. 1253 to 1262 (2001).							
	AK	Jacobasch, G. et al.	, Int. J. Colored	ctal Dis., Vol. 14, pp. 201	to 211 (199	9).				
	AL	Andoh, A. et al., JPE	EN, Journal of	Parenteral and Enteral N	utrition, Vol.	23, No. 5, pp. S70 to	S73 (1999)			
	АМ	Kanauchi, O. et al.,	Journal of Gas	troenterology and Hepato	ology, Vol. 14	4, pp. 880 to 888 (19	99).			
EXAMINER		···· <u>·</u>	 .	DATE CONSIDE						

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copthis form with next communication to applicant.

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Sheet 2 of 5		INFORMA	TION DISCLO	SURE STATEMENT	Τ				
FORM PTO 1449 (mo	•	TMENT OF COMMERCE	ATTY DOC 2006_0		SERIAL N 10/570,				
PATE	ENT AN	ID TRADEMARK OFFICE NCES CITED BY APPLICANT(S)	APPLICANT Kazunari USHIDA et al.						
(Use several sheets if necessary) Date Submitted to PTO: June 12, 2006		FILING DA			GROUP				
			·	······································					
Ţ				or, Title, Date, Pertinent Page					
	BA	Wächtershäuser, A. et al., Eur. J. I	Nutr., Vol.	39, pp. 164 to 171 (200	00).				
	вв	Welters, C. et al., Dis. Colon Rectu	Welters, C. et al., <i>Dis. Colon Rectum</i> , Vol. 45, No. 5, pp. 621 to 627 (2002).						
	ВС	Mortensen, F., et al., J. Gastroente	erology, Vo	ol. 31, pp. 302 to 303 (1	996).				
	BD	Vernia, P. et al., The Lancet, Vol. 3	Vernia, P. et al., <i>The Lancet</i> , Vol. 356, pp. 1232 to 1235 (2000).						
	BE	Rabbani, G. et al., The Journal of Infectious Diseases, Vol. 179, pp. 390 to 397 (1999).							
	BF	Rahman et al., Gastroenterology, Vol. 112, No. 4, A2 (1997).							
	BG	Ramakrishna, B.S. et al., <i>Gut</i> , Vol.	Ramakrishna, B.S. et al., <i>Gut,</i> Vol. 34, pp. 1215 to 1218 (1993).						
	ВН	Rabbani, G. et al., Gastroenterolog	Rabbani, G. et al., Gastroenterology, Vol. 121, pp. 554 to 560 (2001).						
	ВІ	Ramakrishna, B.S., The New Engle	and Journa	al of Medicine, Vol. 342	, No. 5, pp	o. 308 to 313 (2000).			
	BJ	Kanauchi, O. et al., Biosci. Biotech	Kanauchi, O. et al., Biosci. Biotechnol. Biochem., Vol. 62, No. 9, pp. 1788 to 1790 (1998).						
	вк	Chen, H. et al., Nutrition Research,	Chen, H. et al., Nutrition Research, Vol. 20, No. 12, pp. 1725 to 1733 (2000).						
	BL	Chen, H. et al., Journal of the Amer	rican Colle	ege of Nutrition, Vol. 20,	No. 1, pp	o. 44 to 49 (2001).			
	вм	Parisi, G. C., Digestive Diseases an	nd Science	es, Vol. 47, No. 8, pp. 1	697 to 17	04 (2002).			
EXAMINER				DATE CONSIDERED					

Sheet 3 of 5 ' INFORMATION DISCLOSURE STATEMENT								
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE		ATTY DOCKET NO. 2006_0286A	SERIAL NO. 10/570,133					
PAT LIST OF 1	PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S)		APPLICANT Kazunari USHIDA et al.					
		eral sheets if necessary) ed to PTO: June 12, 2006	FILING DATE March 1, 2006		GROUP			
	CA	Bijkerk, C., Aliment Pharmacol. Th	er., Vol. 19, pp. 245 to 251 (20	004).				
	СВ	Fiordaliso, M. et al., <i>Lipids</i> , Vol. 30	, No. 2, pp. 163 to 167 (1995)	•				
	СС	Delzenne, N. et al., Am. J. Clin. Nu	utr., Vol. 73, pp. 456S to 458S	(2001).				
	CD	Marcil, V. et al. <i>J. Nutr.</i> , Vol. 133, p	pp. 2180 to 2183 (2003).					
	CE	McIntyre, A. et al. <i>Gut</i> , Vol. 34, pp. 386 to 391 (1993).						
	CF	Perrin, P. et al., <i>Gut</i> , Vol. 48, pp. 53 to 61 (2001).						
	CG	D'Argenio, G. et al., Gastroenterolo	D'Argenio, G. et al., <i>Gastroenterology</i> , Vol. 110, pp. 1727 to 1734 (1996).					
	СН	Leschelle, X. et al., <i>Eur. J. Biochem.</i> , Vol. 267, pp. 6435 to 6442 (2000).						
	CI	Augenlicht, L. et al., Cancer Research, Vol. 59, pp. 6005 to 6009 (1999).						
	CJ	Heerdt, B. et al., Cancer Research	Heerdt, B. et al., Cancer Research, Vol. 54, pp. 3288 to 3294 (1994).					
	СК	Heerdt, B. et al., The Journal of Bio	Heerdt, B. et al., The Journal of Biological Chemistry, Vol. 266, No. 28, pp. 19120 to 19126 (1991).					
	CL	Pouillart, P., Life Sciences, Vol. 63	, No. 20, pp. 1739 to 1760 (19	98).				
	СМ	Anderson, A., Microbiological Revie	ews, Vol. 54, No. 4, pp. 450 to	472.				
EXAMINER			DATE CONSIDERED					

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copthis form with next communication to applicant.

Sheet 4 of 5		INFORMA	TION DISCLO	SURE STATEMENT				
FORM PTO 1449 (<i>n</i>		RTMENT OF COMMERCE	ATTY DOC 2006_02	KET NO.				
PAT	ENT AN	ID TRADEMARK OFFICE NCES CITED BY APPLICANT(S)	APPLICANT Kazunari USHIDA et al.					
(Use several sheets if necessary) Date Submitted to PTO: June 12, 2006		FILING DA March 1,			GROUP			
		OTHER DOCUMENT(S) (I	Including Auth	or, Title, Date, Pertinent Pages	s, Etc.)			
	DA	Lee, S., Biotechnology and Bioeng	· -					
	DB	Brune, V. et al., Z. Tierphysiol., Tie	Brune, V. et al., Z. Tierphysiol., Tierenährg. u. Futtermittelkde., Vol. 38, pp. 81 to 93 (1977).					
	DC	Forni, D. et al., Ann. Zootech., Vol.	. 48, pp. 16	3 to 171 (1999).				
	DD	Forni, D. et al., <i>J. Anim. Physiol. A. Anim. Nutr.</i> , Vol. 81, pp. 31 to 40 (1999).						
	DE	Forni, D. et al., <i>J. Anim. Physiol. A. Anim. Nutr.</i> 81, pp. 41 to 50 (1999).						
	DF	Embleton, J. et al., J. Microencaps	eton, J. et al., <i>J. Microencapsulation</i> , Vol. 9, No. 1, pp. 73 to 87 (1992).					
	DG	Kusaka, S. et al., Appl. Microbiol. E	S. et al., <i>Appl. Microbiol. Biotechnol.</i> , Vol. 47, pp. 140 to 143 (1997).					
	DH	McBee, R., The Journal of Experim	Bee, R., The Journal of Experimental Zoology Supplement, Vol. 3, pp. 55 to 60 (1989).					
	DI	Stevens, C. et al., Physiological Re	Stevens, C. et al., Physiological Reviews, Vol. 78, No. 2, pp. 393 to 427 (1998).					
	DJ	Marounek, M. et al., Physiol. Res.,	Marounek, M. et al., <i>Physiol. Res.</i> , Vol. 47, pp. 259 to 263 (1998).					
	DK	Jamroz, D. et al., Comparative Biod	Jamroz, D. et al., Comparative Biochemistry and Physiology Part A, Vol. 131, pp. 657 to 668 (2002).					
	DL	Kihara, M. et al. Comparative Bioch	hemistry aı	nd Physiology Part A, V	ol. 132, p	p. 333 to 340 (2002).		
	DM	Mountfort, D. et al., Applied and En	nvironment	al Microbiology, Vol. 68	, No. 3, p	p. 1374 to 1380 (2002).		
EXAMINER				DATE CONSIDERED				

Sheet 5 of 5			INFORMA	TION DISCLO	SURE STATEMENT					
FORM PTO 1449 (<i>modified</i>) U.S. DEPARTMENT OF COMMERCE				ATTY DOC 2006_02				AL NO. 70,133		
PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S)				APPLICANT Kazunari USHIDA et al.						
		eral sheets if necessary) ed to PTO: June 12, 200	06	FILING DAT				GROUP		
			U.	S. PATENT DO	DCUMENTS					-
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME	CLAS	ss	SUBCLASS	FILING DAT APPROPRI	
	EA	4,663,308	05/1987	Saf	fran et al.					
			FORE	EIGN PATENT	DOCUMENTS					
		DOCUMENT NUMBER	DATE	C	OUNTRY	CLAS	ss	SUBCLASS	TRANSLATI YES	ON NO
	ЕВ	H11-092552	04/1999		JP				abstract only	
	EC	H06-179618	06/1994		JP				abstract only	
	ED	H10-324642	12/1998		JP				abstract only	
	EE	2000-143538	05/2000		JP				abstract only	
		OTHER	DOCUMENT(S) (I	Including Autho	or, Title, Date, Pertine	ent Pages,	Etc.)			
	EF Slater, S.C. et al., <i>Journal of Bacteriology</i> , Vol. 170, No. 10, pp. 4431 to 4436 (1988).									
	EG	Schubert, P. et al.,	Schubert, P. et al., Journal of Bacteriology, Vol. 170, No. 12, pp. 5837 to 5847 (1988).							
	EH	Poirier, Y. et al., <i>Sci</i>	ence, Vol. 256	, pp. 520 to	523 (1992).					
	EI	Younes, H. et al., Ti	Younes, H. et al., <i>The Journal of Nutrition</i> , Vol. 125, No. 4, pp. 1010 to 1016 (1995).							
	EJ	Okayasu, I. et al., G	astroenterolog	y, Vol. 98,	pp. 694 to 702 (1	1990).	_			
	EK	Tanaka, Y. et al., Eu	ır. J. Biochem.	, Vol. 118, _I	pp. 177 to 182 (1	1981).			<u>.</u>	
	EL	Mochizuki, M. et al.,	Polymers for A	Advanced 7	echnologies, Vo	ol. 8, pp.	. 203	to 209 (1996)).	
EXAMINER					DATE CONSIDER	ED				

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.